Network Services (NS)

SECURELY CONNECTING NIH AND ITS PARTNERS

Through a high-speed, modernized network, NIH researchers and external collaborators can safely transfer large research data sets at rates faster than ever.

WHAT WE PROVIDE

NIHnet Backbone

NIHnet is a high-speed, highly available network that interconnects NIH, the commodity internet, and the Internet2 research network. NIHnet runs a 100G backbone that provides fast, secure, consistent connections for network traffic, even when there are hardware or software disruptions or slowdowns.

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Data Center Network

The NIHnet Data Centers provide key server infrastructures that support some of NIH's most critical services. Two principal data centers offer redundancy and bolster disaster preparedness.

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Enterprise Network Services

Offering speeds of up to 10 gigabits per second (Gb/s), NIHnet Enterprise Network Services (ENS) provides network connectivity to end users at ICs on and off the NIH campus.

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Facilities Network Services

The NIHnet Facility Network Services (FACnet) provides protected network connectivity for utilities monitoring, physical security, and environmental systems support. Some examples of FACnet end systems include monitoring refrigeration for scientific labs and providing tracking and approval support for facilities badge access.

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Wireless Network Service

The NIHnet Wireless Network Service provides wireless access for NIH staff and visitors and is a critical tool for nurses and doctors who to enter patient information.

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High-Bandwidth Data Transfer for Researchers

Science DMZ is a scientific network "fast lane" that prioritizes and increases the speed of sending science data sets at NIH with added layers of security.

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Trusted Internet Connection (TIC)

Network Services is responsible for secure connections to external entities such as the Department of Health and Human Services (HHS), HHS Operating Divisions, medical institutions, and research facilities.

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Network Security

We provide vital network security to NIH networks that prevents untrusted, unauthorized devices from accessing NIH network resources and infrastructure.

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VPN Service

NIH's Virtual Private Network (VPN) offers a secure remote connection so that NIH staff can access NIHnet and their work files anytime, anywhere.

Application Delivery Service

The application delivery service provides load-balancing between applications and servers. It also increases the availability of applications by directing traffic to healthy servers and away from servers that are experiencing performance difficulties.

Web Filtering

Web filtering prevents access to dangerous websites, protects users by automatically stopping web-based attacks, and maintains compliance via policy-based web access.